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January 11, 1990

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JAN 11 1990

Federal Communications Commission
Office of the Secretary

Ms. Donna Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W.
Room 222
Washington, D.C. 20554

Re: MM Docket Number 87-268

Dear Ms. Searcy:

At 4:00 p.m. on Tuesday, January 9, 1990, Mr. John Sie, Vice President of Tele-Communications, Inc. (TCI), met with FCC Chairman Alfred Sikes, his Chief of Staff, Mr. Charles Schott, and other Commission staff members to discusss Advanced Television (ATV).

The information and arguments made during the meeting essentially replicated those presented by TCI to the Commission in its Comments (and accompanying engineering reports) and Reply Comments pursuant to the Commission's Tentative Decision and Further Notice of Inquiry (MM Docket Number 87-268), released September 1, 1988. In addition, Mr. Sie submitted the attached proposal entitled "Step One of United States Advanced Television System...USATS-1."

This letter and the attached proposal represent a full description of Mr. Sie's presentation at the meeting. I would be happy to clarify any questions you might have concerning this discussion.

Sincerely,

PRESTON, GATES, ELLIS
& ROUVELAS MEEDS

By: Drew D Pettus
Drew D. Pettus

cc: Chairman Al Sikes
Mr. Charles Schott

bcc: Mr. John Draper
Mr. Jim Meyers

JJS 1/1/90

PROPOSAL

STEP ONE OF UNITED STATES ADVANCED TELEVISION SYSTEM...USATS-1

The proposed Step 1 for the United States Advanced Television System is a family of systems that can be expeditiously deployed nationally within the next two years. USATS-1 will offer program producers, video distributors, and consumers highly improved image quality and digital sound on a standard or wide screen display.

All USATS-1 systems are fully compatible to the current NTSC standard and can be deployed over the existing NTSC video distribution technologies of satellite, broadcast, cable, fiber, VCR and videodisk, with minimal changes and no consumer dislocations. Moreover, all of the existing in-place NTSC television sets will receive improved quality reception. USATS-1 will encompass all of the U.S. based existing NTSC-compatible 6MHz Advanced Television (ATV) proponents.

USATS-1 is uniquely suited for the United States television marketplace. Its deployment will be a pre-emptive move against any foreign developed non-compatible advanced television systems. All proponents of the USATS-1 will coordinate and cooperate in the development of a compatible family of encoding processes. At the same time such proponents will continue competitive product development, manufacturing, marketing and distribution of consumer hardwares.

System Description

There will be two families of USATS-1, type A and type B. Type B encoders will encode the signals using the standard aspect ratio of 4x3. Type A will encode signals in the wide aspect ratio of 16x9 plus a pan-and-scan feature. The video program originators will deploy either type A or B encoders for television transmission. For type B encoded signals, both type B receivers and standard sets will receive full screen display and type A receivers will display the 4x3 signal in the center portion of the wide screen with black bands on both sides. For type A encoded signals, type A receivers will receive the full screen 16x9 display and both type B and standard sets will receive the pan-and-scan portion of the display if provided for by the originator. See Figures 1,2,3 for a more detail description of the USATS-1.

JSS 1/1/90

Receiver

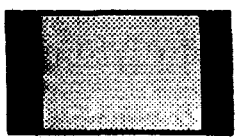
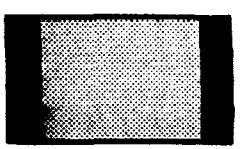
Encoder	S	B	A
S	**Standard NTSC** 4x3 ASPECT RATIO 525 LINES LOW RESOLUTION NTSC ARTIFACTS	4x3 ASPECT RATIO 1050 LINES SOMEWHAT IMPROVED RESOLUTION LESS ARTIFACTS	 4x3 DISPLAY CENTERED, L, OR R BLACK BANDS ON SIDES QUALITY LIKE B-RECEIVER
B	4x3 ASPECT RATIO 525 LINES LOW RESOLUTION LESS ARTIFACTS	**SuperNTSC** 4x3 ASPECT RATIO 1050 LINES HIGHER RESOLUTION MINIMAL ARTIFACTS	 4x3 DISPLAY CENTERED, L, OR R BLACK BANDS ON SIDES QUALITY LIKE B-RECEIVER
A	PAN/SCAN DISPLAY 4x3 ASPECT RATIO 525 LINES LOW RESOLUTION LESS ARTIFACTS	PAN/SCAN DISPLAY 4x3 ASPECT RATIO 1050 LINES HIGHER RESOLUTION MINIMAL ARTIFACTS	**ACTV-1** FULL SCREEN DISPLAY 16x9 ASPECT RATIO 1050 LINES HIGHEST RESOLUTION MINIMAL ARTIFACTS

Fig 3 USATS-1 System Compatibility

Signal Sources

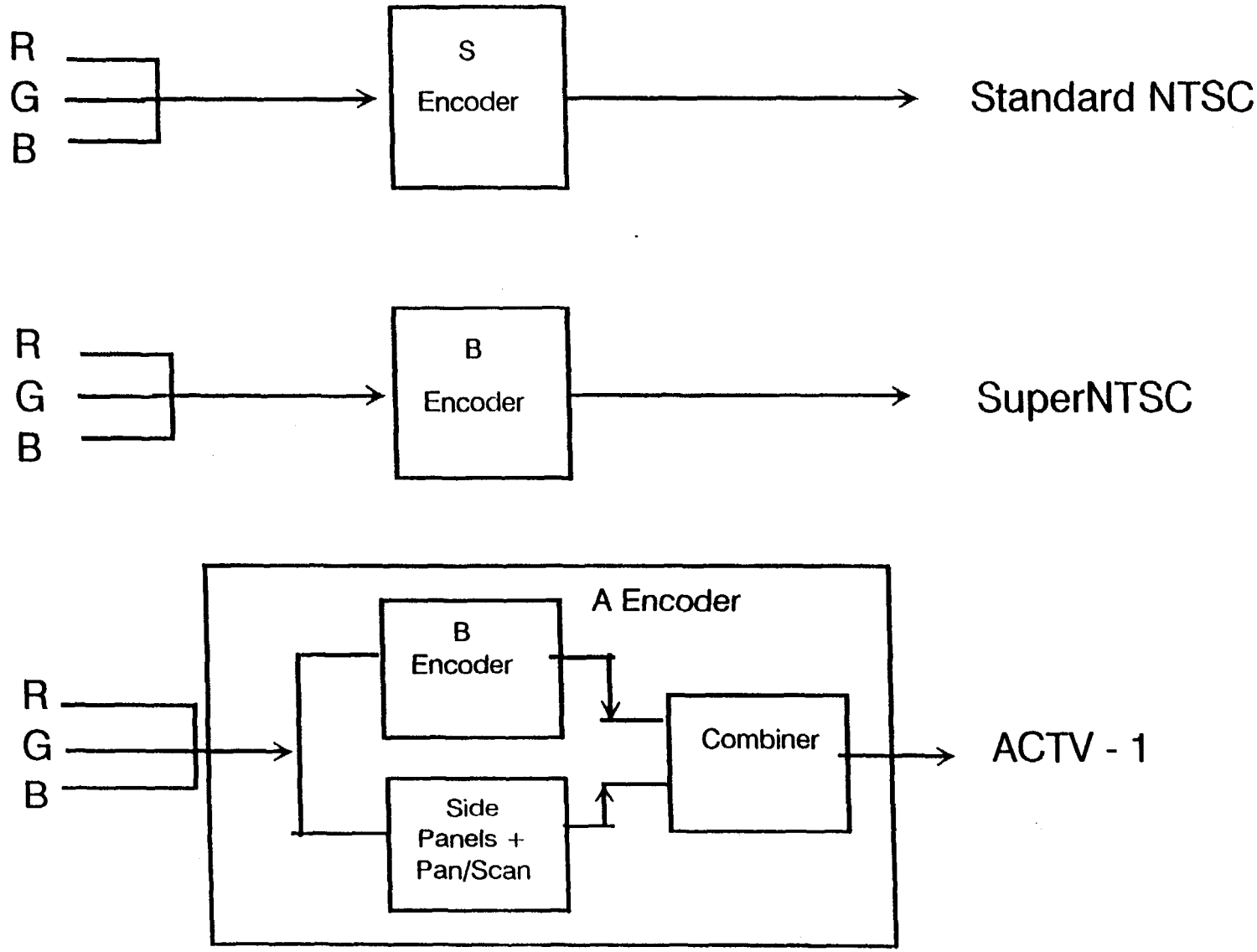
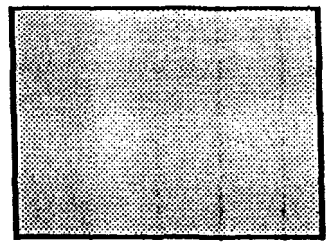


Fig 1 USATS-1 Encoding Schemes

S

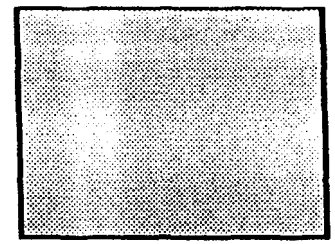


Standard NTSC

4x3 Aspect Ratio

525 Lines

B

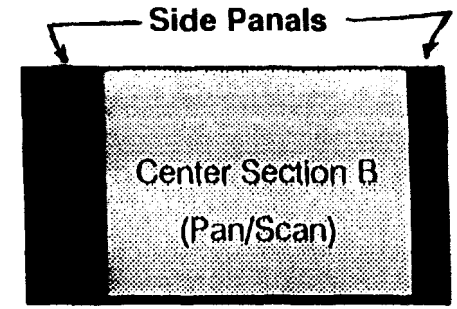


SuperNTSC

4x3 Aspect Ratio

1050 Lines

A



ACTV - 1

16x9 Aspect Ratio

1050 Lines

Fig 2 USATS-1 Receivers